

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 21, 2003, 12:30:13 ; Search time 14 seconds  
(without alignments)  
13.733 Million cell updates/sec

Title: SHORT-PEP  
Perfect score: 16  
Sequence: 1 rw 2

Scoring table: BIOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 206

Minimum DB seq length: 0  
Maximum DB seq length: 5

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : PIR\_73: \*  
1: PIR1: \*  
2: PIR2: \*  
3: PIR3: \*  
4: PIR4: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	100.0	5	A60803	neuropeptide - sea
2	81.2	3	F37196	bradykinin-potentl
3	81.2	5	G37196	bradykinin-potentl
4	66.8	4	A34626	RPCII-related neuro
5	66.8	4	B53284	T-cell receptor be
6	66.8	4	PT0661	T-cell receptor be
7	66.8	5	A32516	cholecystokinin-5
8	66.8	5	JH0253	gut pentapeptide -
9	66.8	5	PT0281	Ig heavy chain CRD
10	66.8	5	PT0308	Ig heavy chain CRD
11	66.8	5	PT0729	T-cell receptor be
12	66.8	5	PT0580	T-cell receptor be
13	43.8	4	I61883	protamine p1 - ora
14	43.8	4	I37013	protamine p1 - Cer
15	43.8	4	I84439	protamine p1 - sav
16	43.8	5	I30964	ribosomal protein
17	43.8	5	I39966	ribosomal protein
18	43.8	5	I39965	ribosomal protein
19	43.8	5	I39965	ribosomal protein
20	43.8	5	A60411	protholin - Atlant
21	37.5	4	ECXAA	antho-RFamide neur
22	37.5	4	ECNR	cardioexcitatory n
23	37.5	4	D41654	hypothetical prote
24	37.5	4	A25844	antho-RF amide neu
25	31.2	3	A60418	R-phycoerythrin al
26	31.2	3	A22565	R-phycoerythrin al
27	31.2	3	P00010	angiotensin-conver
28	31.2	4	A02147	phagocytosis-stimu
29	31.2	4	I40870	phospholipase C (E

30	31.2	4	A35779	neuropeptide Antho
31	31.2	4	PT0721	T-cell receptor be
32	31.2	4	S47552	ubiquitin - rat
33	31.2	5	JN0862	peptidyl-dipeptida
34	31.2	5	I40702	primase - Citrobac
35	31.2	5	A44955	alkanal monooxygen
36	31.2	5	D60274	major protein anti
37	31.2	5	B22565	R-phycoerythrin al
38	31.2	5	F22565	R-phycoerythrin ga
39	31.2	5	T14910	hypothetical prote
40	31.2	5	S53595	hypothetical prote
41	31.2	5	PT0295	Ig heavy chain CRD
42	31.2	5	S62883	semnal plasma pro
43	31.2	5	PT0513	T-cell receptor be
44	31.2	5	PT0525	T-cell receptor be
45	31.2	5	PT0597	T-cell receptor be
46	31.2	5	PT0608	T-cell receptor be
47	31.2	5	PT0672	T-cell receptor be
48	31.2	5	PT0553	T-cell receptor be
49	31.2	5	PT0695	T-cell receptor be
50	31.2	5	PT0577	T-cell receptor be
51	31.2	5	PT0565	T-cell receptor be
52	31.2	5	PT0572	T-cell receptor be
53	31.2	5	PT0700	T-cell receptor be
54	25.0	4	P00689	photosystem I 10.4
55	18.8	3	A43391	TRH-like tripeptid
56	18.8	4	S39390	myosin-light-chain
57	12.5	3	GKHU	growth-modulating
58	12.5	3	A60898	burstin - chicken
59	12.5	3	S13894	histidinol dehydro
60	12.5	3	E37196	bradykinin-potentl
61	12.5	3	S68328	blood cell prote in
62	12.5	4	A32039	tyrosine-melanocyt
63	12.5	4	PL0146	carbon-monoxide de
64	12.5	4	A37832	phenol 2-monooxyge
65	12.5	4	I40503	hypothetical prote
66	12.5	4	I40804	endoglycanase F -
67	12.5	4	T46627	hypothetical prote
68	12.5	4	S09478	globulin IV alpha
69	12.5	4	J01273	neuropeptide Antho
70	12.5	4	PT0240	Ig heavy chain CRD
71	12.5	4	S43959	Ig mu chain V regl
72	12.5	4	E44823	synaptosomal-assoc
73	12.5	4	PT0534	T-cell receptor be
74	12.5	5	C41225	copper resistance
75	12.5	5	B37325	pap fibrinial regul
76	12.5	5	A32014	tram protein - Esc
77	12.5	5	I40469	dnax-1-like protein
78	12.5	5	E60274	major protein anti
79	12.5	5	P00009	angiotensin-conver
80	12.5	5	S65726	hemoglobin, extrac
81	12.5	5	B61445	leu-enkephalin - b
82	12.5	5	A61445	Met-enkephalin - b
83	12.5	5	S11075	alcohol dehydrogen
84	12.5	5	S11127	phosphoprotein, bo
85	12.5	5	PT0278	Ig heavy chain CRD
86	12.5	5	PT0660	T-cell receptor be
87	12.5	5	S68326	blood cell prote in
88	12.5	5	JT0870	physosulfokine alp
89	6.2	3	RHDTTO	thyloliberin - alp
90	6.2	3	RHPGT	thyloliberin - Bom
91	6.2	3	RHSHT	thyloliberin - she
92	6.2	3	A92971	thyloliberin - eas
93	6.2	3	A23751	spinal cord peptid
94	6.2	3	A33802	thyrotropin-releas
95	6.2	4	A48360	gamma subunit of p
96	6.2	4	I57745	D-mannanase hydro
97	6.2	4	S53508	starvation-induced
98	6.2	4	I38888	COI intron 16 prot
99	6.2	4	A32480	achetlin-I - giant
100	6.2	5	A60521	glycogen phosphory

## ALIGNMENTS

## RESULT 1

A60803

neuropeptide - sea anemone (*Anthopleura elegantissima*)C:Species: *Anthopleura elegantissima*

C:Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 07-May-1999

C:Accession: A60803

R:Graft, D.; Grimmelikhuijzen, C.J.P.

Brain Res. 442, 354-358, 1988

A:Title: Isolation of &lt;Glu-Ser-Trp-Arg&gt; a novel neuropeptide from sea anemones.

A:Reference number: A60803; MUID:88222764; PMID:2897223

A:Accession: A60803

A:Molecule type: protein

A:Residues: 1-5 &lt;GRA&gt;

C:Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid

F:1/Modified site: pyroglutamic carboxylic acid (Gln) #status experimental

F:5/Modified site: amidated carboxyl end (Trp) #status experimental

## Query Match

Best Local Similarity 100.0%; Score 16; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2

DB 4 KW 5

## RESULT 2

F37196

bradykinin-potentiating peptide 6 - island jararaca

C:Species: *Bothrops insularis* (island jararaca)

C:Date: 15-Jun-2001 #sequence\_revision 15-Jun-2001 #text\_change 15-Jun-2001

C:Accession: F37196

R:Chitra, A.C.O.; Vieira, C.A.; Giglio, J.R.

J. Protein Chem. 9, 221-227, 1990

A:Title: Primary structure and biological activity of bradykinin potentiating peptides

A:Reference number: A37196; MUID:90351557; PMID:2386615

A:Accession: F37196

A:Status: preliminary

A:Molecule type: protein

A:Residues: 1-3 &lt;GIN&gt;

C:Keywords: pyroglutamic acid

F:1/Modified site: pyroglutamic carboxylic acid (Gln) #status experimental

## Query Match

Best Local Similarity 81.2%; Score 13; DB 3; Length 3;

Best Local Similarity 50.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2

DB 2 KW 3

## RESULT 3

G37196

bradykinin-potentiating peptide 7 - island jararaca

C:Species: *Bothrops insularis* (island jararaca)

C:Date: 14-Feb-1992 #sequence\_revision 01-Dec-1992 #text\_change 05-Aug-1994

C:Accession: G37196

R:Chitra, A.C.O.; Vieira, C.A.; Giglio, J.R.

J. Protein Chem. 9, 221-227, 1990

A:Title: Primary structure and biological activity of bradykinin potentiating peptides

A:Reference number: A37196; MUID:90351557; PMID:2386615

A:Accession: G37196

A:Status: preliminary

A:Molecule type: protein

A:Residues: 1-5 &lt;GIN&gt;

C:Keywords: pyroglutamic acid

F:1/Modified site: pyroglutamic carboxylic acid (Gln) #status experimental

## Query Match

Best Local Similarity 81.2%; Score 13; DB 2; Length 5;

Best Local Similarity 50.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2

DB 2 KW 3

## RESULT 4

A34626

RCH-related neuropeptide - ferruginous spindle

C:Species: *Fusinus ferrugineus* (ferruginous spindle)

C:Date: 06-Jul-1990 #sequence\_revision 06-Jul-1990 #text\_change 31-Dec-1993

C:Accession: A34626

R:Kuroki, Y.; Kanda, T.; Kubota, I.; Fujisawa, Y.; Ikeda, T.; Miura, A.; Minamitake,

Biochem. Biophys. Res. Commun. 167, 273-279, 1990

A:Title: A molluscan neuropeptide related to the crustacean hormone, RCH.

A:Reference number: A34626; MUID:90179762; PMID:2310394

A:Accession: A34626

A:Status: preliminary

A:Molecule type: protein

A:Residues: 1-4 &lt;KUR&gt;

C:Keywords: neuropeptide

## Query Match

Best Local Similarity 68.8%; Score 11; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 W 2

DB 4 W 4

## RESULT 5

B53284

T-cell receptor beta 2 chain D region, Dbeta2 - rabbit

C:Species: *Oryctolagus cuniculus* (domestic rabbit)

C:Date: 02-May-1994 #sequence\_revision 18-Nov-1994 #text\_change 05-Nov-1999

C:Accession: B53284

R:Harindranath, N.; Alexander, C.B.; Mage, R.G.

Mol. Immunol. 28, 881-888, 1991

A:Title: Evolutionarily conserved organization and sequences of germline diversity an

A:Reference number: A53284; MUID:91342695; PMID:1678853

A:Accession: B53284

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-4 &lt;HAR&gt;

A:Cross-references: GB:560737; NID:9233916; PID:AA019518.1; PID:9233918

A&gt;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIPI:60738)

C:Keywords: T-cell receptor

## Query Match

Best Local Similarity 68.8%; Score 11; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 W 2

DB 2 W 2

## RESULT 6

PT0661

T-cell receptor beta chain V-D-J region (121-18V) - mouse (fragment)

C:Species: *Mus musculus* (house mouse)

C:Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C:Accession: PT0661

R:Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions

A:Reference number: PT0661; MUID:91277601; PMID:1711558

A:Accession: PT0661

A:Status: translation not shown

A:Molecule type: mRNA

## Query Match

A:Residues: 1-4 <FE2>  
 A:Experimental source: day 4 postnatal thymus, strain BALB/c  
 C:Keywords: T-cell receptor

Query Match 68.8%; Score 11; DB 2; Length 4;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 W 2  
 1  
 Db 3 W 3

## RESULT 7

A32516  
 cholecystokinin-5 - dog  
 N:Alternate names: CCK-5  
 C:Species: Canis lupus familiaris (dog)  
 C:Date: 18-Oct-1989 #sequence\_revision 18-Oct-1989 #text\_change 18-Aug-2000  
 C:Accession: A32516  
 R:Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, J.H.  
 Am. J. Physiol. 252, G272-G275, 1987  
 A:Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and intest.  
 A:Reference number: A32516; PMID:87153871; PMID:3826354  
 A:Accession: A32516  
 A:Molecule type: Protein  
 A:Residues: 1-5 <SH1>  
 C:Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecystokinin.  
 C:Superfamily: gastrin  
 C:Keywords: amidated carboxyl end; neuropeptide  
 P:5/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 68.8%; Score 11; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 W 2  
 1  
 Db 2 W 2

## RESULT 8

JH0253  
 gut pentapeptide - Japanese eel  
 C:Species: Anguilla japonica (Japanese eel)  
 C:Date: 31-Mar-1992 #sequence\_revision 31-Mar-1992 #text\_change 11-Apr-1995  
 C:Accession: JH0253  
 R:Uesaka, T.; Ikeda, T.; Kubota, I.; Muneoka, Y.; Ando, M.  
 Biochem. Biophys. Res. Commun. 180, 828-832, 1991  
 A:Title: Structure and function of a pentapeptide isolated from the gut of the eel.  
 A:Reference number: JH0253; PMID:92062113; PMID:1953755  
 A:Accession: JH0253  
 A:Molecule type: protein  
 A:Residues: 1-5 <UES>  
 A:Experimental source: gut  
 C:Comment: This peptide increased basal tone of the circular muscle of the esophagogastric junction, and of the circular muscle of the gastro-intestinal junction.

Query Match 68.8%; Score 11; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 W 2  
 1  
 Db 3 W 3

## RESULT 9

PT0281  
 Ig heavy chain CRD3 region (clone 4-91C) - human (fragment)  
 C:Species: Homo sapiens (man)  
 C:Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 16-Aug-1996  
 C:Accession: PT0281

R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.  
 J. Exp. Med. 173, 395-407, 1991

A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity an

A:Reference number: PT0222; PMID:91108337; PMID:1899102

A:Accession: PT0281

A:Molecule type: DNA

A:Residues: 1-5 <YAM>

A:Experimental source: B lymphocyte

C:Keywords: heterotetramer; immunoglobulin

Query Match 68.8%; Score 11; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 W 2  
 1  
 Db 4 W 4

## RESULT 10

PT0308  
 Ig heavy chain CRD3 region (clone 6-88) - human (fragment)  
 C:Species: Homo sapiens (man)  
 C:Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 16-Aug-1996  
 C:Accession: PT0308  
 R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.  
 J. Exp. Med. 173, 395-407, 1991  
 A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity an  
 A:Reference number: PT0222; PMID:91108337; PMID:1899102  
 A:Accession: PT0308  
 A:Molecule type: DNA  
 A:Residues: 1-5 <YAM>  
 A:Experimental source: B lymphocyte  
 C:Keywords: heterotetramer; immunoglobulin

Query Match 68.8%; Score 11; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 W 2  
 1  
 Db 2 W 2

## RESULT 11

PT0729  
 T-cell receptor beta chain V-D-J region (120-1J) - mouse (fragment)  
 C:Species: Mus musculus (house mouse)  
 C:Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
 C:Accession: PT0640; PT0685; PT0729  
 R:Feeney, A.J.  
 J. Exp. Med. 174, 115-124, 1991  
 A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
 A:Reference number: PT0509; PMID:91277601; PMID:1711558  
 A:Accession: PT0640  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-5 <FE2>  
 A:Experimental source: newborn thymus, strain BALB/c, clone 120-1J  
 A:Accession: PT0685  
 A:Status: translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-5 <FE2>  
 A:Experimental source: day 18 fetal thymus, strain BALB/c, clone 154-1C  
 A:Accession: PT0729  
 A:Status: translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-5 <FE3>  
 A:Experimental source: newborn thymus, strain BALB/c, clone 135-1AG  
 C:Keywords: T-cell receptor

Query Match 68.8%; Score 11; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 W 2  
1  
Db 5 W 5

## RESULT 12

PT0580  
T-cell receptor beta chain V-D-J region (159-2B) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0580  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0580  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <PEE>  
A:Experimental source: day 19 fetal thymus, strain BALB/c  
C:Keywords: T-cell receptor

Query Match 68.8%; Score 11; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 W 2  
1  
Db 4 W 4

## RESULT 13

I61883  
Protamine P1 - orangutan (fragment)  
C:Species: Pongo pygmaeus (orangutan)  
C>Date: 06-Sep-1996 #sequence\_revision 06-Sep-1996 #text\_change 21-Jul-2000  
C:Accession: I61883  
R:Queralt, R.; Oliva, R.  
Gene 133, 197-204, 1993  
A:Title: Identification of conserved potential regulatory sequences of the protamine-end  
A:Reference number: I37013; MUID:94040810; PMID:8224908  
A:Accession: I61883  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-4 <RES>  
A:Cross-references: EMBL:Z12146; NID:938156; PIDN:CAA78130.1; PID:94379372

Query Match 43.8%; Score 7; DB 2; Length 4;  
Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1  
Db 3 RY 4

## RESULT 14

I37013  
Protamine P1 - Cercopithecus patas (fragment)  
C:Species: Cercopithecus patas  
C>Date: 19-Mar-1997 #sequence\_revision 07-Nov-1997 #text\_change 21-Jul-2000  
C:Accession: I37013  
R:Queralt, R.; Oliva, R.  
Gene 133, 197-204, 1993  
A:Title: Identification of conserved potential regulatory sequences of the protamine-end  
A:Reference number: I37013; MUID:94040810; PMID:8224908  
A:Accession: I37013  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-4 <RES>  
A:Cross-references: EMBL:Z12150; NID:922814; PIDN:CAA78134.1; PID:94377415

Query Match 43.8%; Score 7; DB 2; Length 4;  
Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1  
Db 3 RY 4

## RESULT 15

I84439  
Protamine P1 - savannah baboon (fragment)  
C:Species: Papio hamadryas douglara (savannah baboon)  
C>Date: 19-Mar-1997 #sequence\_revision 07-Nov-1997 #text\_change 21-Jul-2000  
C:Accession: I84439  
R:Queralt, R.; Oliva, R.  
Gene 133, 197-204, 1993  
A:Title: Identification of conserved potential regulatory sequences of the protamine-  
A:Reference number: I37013; MUID:94040810; PMID:8224908  
A:Accession: I84439  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-4 <RES>  
A:Cross-references: EMBL:Z12147; NID:938134; PIDN:CAA78131.1; PID:94379349

Query Match 43.8%; Score 7; DB 2; Length 4;  
Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1  
Db 3 RY 4

## RESULT 16

H0808A  
Proctolin - American cockroach  
C:Species: Periplaneta americana (American cockroach)  
C>Date: 29-Jul-1981 #sequence\_revision 29-Jul-1981 #text\_change 23-Aug-1996  
C:Accession: A01644  
R:Starrett, A.N.; Brown, B.E.  
Life Sci. 17, 1253-1256, 1975  
A:Title: Structure of the pentapeptide proctolin, a proposed neurotransmitter in inse  
A:Reference number: A93048; MUID:76074708; PMID:576  
A:Accession: A01644  
A:Molecule type: protein  
A:Residues: 1-5 <STP>  
A:Note: the synthetic peptide had the same chromatographic, electrophoretic, and phar  
R:O'Shea, M.; Adams, M.E.  
Science 213, 567-569, 1981  
A:Title: Pentapeptide (proctolin) associated with an identified neuron.  
A:Reference number: A94260; MUID:81225865; PMID:6113690  
A:Contents: annotation; biological source  
C:Comment: This peptide is found in the lateral white neurons, which occur (in the co  
innerve the striated hindgut muscles in insects and stimulate contraction of these  
C:Superfamily: proctolin  
C:Keywords: neuropeptide

Query Match 43.8%; Score 7; DB 1; Length 5;  
Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1  
Db 1 RY 2

## RESULT 17

I39964  
Ribosomal protein S4 - Bacillus circulans (fragment)  
C:Species: Bacillus circulans  
C>Date: 19-Jul-1996 #sequence\_revision 19-Jul-1996 #text\_change 19-Jul-1996

C:Accession: I39964  
R:Grunddy, F.J.; Henkin, T.M.  
J. Bacteriol. 174, 6763-6770, 1992  
A:Title: Characterization of the *Bacillus subtilis* rpsd regulatory target site.  
A:Reference number: I39963; MUID:93015735; PMID:1400226  
A:Accession: I39964  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-5 <RES>  
A:Cross-references: GB:M99041; NID:9143471  
C:Genetics: rpsd

Query Match  
Best Local Similarity 43.8%; Score 7; DB 2; Length 5;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1:  
DB 3 RX 4

RESULT 18  
I39966  
ribosomal protein S4 - *Bacillus licheniformis* (fragment)  
C:Species: *Bacillus licheniformis*  
C:Date: 19-Jul-1996 #sequence\_revision 19-Jul-1996 #text\_change 19-Jul-1996  
R:Grunddy, F.J.; Henkin, T.M.  
J. Bacteriol. 174, 6763-6770, 1992  
A:Title: Characterization of the *Bacillus subtilis* rpsd regulatory target site.  
A:Reference number: I39963; MUID:93015735; PMID:1400226  
A:Accession: I39966  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-5 <RES>  
A:Cross-references: GB:M99043; NID:9143475  
C:Genetics: rpsd

Query Match  
Best Local Similarity 43.8%; Score 7; DB 2; Length 5;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1:  
DB 3 RX 4

RESULT 19  
I39965  
ribosomal protein S4 - *Bacillus megaterium* (fragment)  
C:Species: *Bacillus megaterium*  
C:Date: 19-Jul-1996 #sequence\_revision 19-Jul-1996 #text\_change 19-Jul-1996  
R:Grunddy, F.J.; Henkin, T.M.  
J. Bacteriol. 174, 6763-6770, 1992  
A:Title: Characterization of the *Bacillus subtilis* rpsd regulatory target site.  
A:Reference number: I39963; MUID:93015735; PMID:1400226  
A:Accession: I39965  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-5 <RES>  
A:Cross-references: GB:M99042; NID:9143473  
C:Genetics: rpsd

Query Match  
Best Local Similarity 43.8%; Score 7; DB 2; Length 5;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1:  
DB 3 RX 4

DB 3 RX 4

RESULT 20  
A60411  
proctolin - Atlantic horseshoe crab  
C:Species: *Limulus polyphemus* (Atlantic horseshoe crab)  
C:Date: 03-Feb-1993 #sequence\_revision 03-Feb-1993 #text\_change 17-Mar-1999  
A:Accession: A60411  
R:Groome, J.R.; Tillinghast, E.K.; Townley, M.A.; Vetrovs, A.; Watson III, W.H.; Hunt  
Peptides 11, 205-211, 1990  
A:Title: Identification of proctolin in the central nervous system of the horseshoe crab  
A:Reference number: A60411; MUID:90287800; PMID:2356151  
A:Accession: A60411  
A:Molecule type: protein  
A:Residues: 1-5 <GRO>  
C:Comment: This neuropeptide stimulates cardiac output and hindgut motility in the horseshoe crab  
C:Keywords: neuropeptide

Query Match  
Best Local Similarity 43.8%; Score 7; DB 2; Length 5;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1:  
DB 1 RX 2

RESULT 21  
ECXAA  
antho-RFamide neuropeptide - sea anemone (*Anthopleura elegantissima*)  
C:Species: *Anthopleura elegantissima*  
C:Date: 31-Dec-1988 #sequence\_revision 31-Dec-1988 #text\_change 08-Dec-1995  
A:Accession: A26666  
R:Grimmelikhuisen, C.J.P.; Graff, D.  
Proc. Natl. Acad. Sci. U.S.A. 83, 9817-9821, 1986  
A:Title: Isolation of <Glu-Gly-Arg-Phe-NH2 (Antho-RFamide), a neuropeptide from sea anemone  
A:Reference number: A26666; MUID:87092339; PMID:2879288  
A:Accession: A26666  
A:Molecule type: protein  
A:Residues: 1-4 <GR>  
C:Comment: The function of this peptide is not known but it could act as a transmittor  
C:Comment: Synthetic and natural peptides had identical properties.  
C:Superfamily: RFamide neuropeptide  
C:Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid  
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental  
F:4/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match  
Best Local Similarity 37.5%; Score 6; DB 1; Length 4;  
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RW 2  
1:  
DB 3 RX 4

RESULT 22  
ECNKA  
cardioexcitatory neuropeptide FMRFamide - sunray clam  
C:Species: *Macrocallista nimbosa* (sunray clam)  
C:Date: 20-Jun-2000 #sequence\_revision 20-Jun-2000 #text\_change 20-Jun-2000  
A:Accession: A01426  
R:Price, D.A.; Greenberg, M.J.  
Science 197, 670-671, 1977  
A:Title: Structure of a molluscan cardioexcitatory neuropeptide.  
A:Reference number: A01426; MUID:77215956; PMID:877582  
A:Accession: A01426  
A:Molecule type: protein  
A:Residues: 1-4 <PR>  
A:Note: the active peptide was also synthesized  
C:Comment: This peptide was purified from pooled extracts of cerebral, pedal, and vis action in molluscs; its exact physiological role is not yet established.

C:Superfamily: unassigned animal peptides  
 C:Keywords: amidated carboxyl end; neuropeptide  
 F:4/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 37.5%; Score 6; DB 2; Length 4;  
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 2  
 1:  
 Db 3 RF 4

## RESULT 23

D41654

hypothetical protein (sodC 5' region) - Haemophilus parainfluenzae (fragment)

C:Species: Haemophilus parainfluenzae  
 C:Date: 12-Jun-1992 #sequence\_revision 12-Jun-1992 #text\_change 24-Feb-1995

C:Accession: D41654  
 R:Klotz, J.S.; Langford, P.R.; Loynds, B.M.

J. Bacteriol. 173, 7449-7457, 1991

A:Title: Copper-zinc superoxide dismutase of Haemophilus influenzae and Haemophilus para  
 A:Reference number: A41654; MUID:92041655; PMID:1938942

A:Accession: D41654

A>Status: Preliminary

A:Molecule type: DNA

A:Residues: 1-4 <KRO>

Query Match 37.5%; Score 6; DB 2; Length 4;  
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 2  
 1:  
 Db 2 RF 3

## RESULT 24

A25844

autho-RF amide neuropeptide - sea pansy (Renilla koellikeri)

C:Species: Renilla koellikeri (Koelliker's sea pansy)

C:Date: 21-May-1998 #sequence\_revision 30-Sep-1993 #text\_change 11-Jul-1997

C:Accession: A25844

R:Grimmelikhuijzen, C.J.P.; Groeger, A.

FEBS Lett. 211, 105-108, 1987

A:Title: Isolation of the neuropeptide pc1u-gly-Arg-Phe-amide from the pennatulid Renilla

A:Reference number: A25844

A:Accession: A25844

A:Molecule type: protein

A:Residues: 1-4 <GRD>

C:Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid

F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F:4/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 37.5%; Score 6; DB 2; Length 4;  
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 2  
 1:  
 Db 3 RF 4

## RESULT 25

A60418

FMRRamide - polychaete (Nereis virens)

C:Species: Nereis virens (sandworm)

C:Date: 11-Feb-1993 #sequence\_revision 11-Feb-1993 #text\_change 11-Jul-1997

C:Accession: A60418

R:Krahlak, K.G.; Price, D.A.

Peptides 11, 75-77, 1990

A:Title: Authentic FMRRamide is present in the polychaete Nereis virens.

A:Reference number: A60418; MUID:90259866; PMID:2342992

A:Accession: A60418  
 A:Molecule type: protein  
 A:Residues: 1-4 <KRA>  
 C:Keywords: amidated carboxyl end; neuropeptide  
 F:4/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 37.5%; Score 6; DB 2; Length 4;  
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 2  
 1:  
 Db 3 RF 4

## RESULT 26

A22565

R-phycoerythrin alpha-1 chain - red alga (Gastrocionium coulteri) (fragment)

C:Species: Gastrocionium coulteri

C:Date: 15-Jun-2001 #sequence\_revision 15-Jun-2001 #text\_change 15-Jun-2001

C:Accession: A22565

R:Klotz, A.V.; Glazer, A.N.

J. Biol. Chem. 260, 4856-4863, 1985

A:Title: Characterization of the bilin attachment sites in R-phycoerythrin.

A:Reference number: A22565; MUID:85182601; PMID:3886644

A:Accession: A22565

A:Molecule type: protein

A:Residues: 1-3 <KLO>

Query Match 31.2%; Score 5; DB 3; Length 3;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 1  
 1:  
 Db 3 RF 3

## RESULT 27

PQ0010

angiotensin-converting enzyme inhibitor (FLP-3) - common fig

N:Alternate names: ficus latex peptide 3

C:Species: Ficus carica (common fig)

C:Date: 15-Jun-2001 #sequence\_revision 15-Jun-2001 #text\_change 15-Jun-2001

C:Accession: PQ0010

R:Maruyama, S.; Miyoshi, S.; Tanaka, H.

Agric. Biol. Chem. 53, 2763-2767, 1989

A:Title: Angiotensin I-converting enzyme inhibitors derived from Ficus carica.

A:Reference number: PQ0008

A:Accession: PQ0010

A:Molecule type: protein

A:Residues: 1-3 <MAR>

A:Experimental source: latex

C:Keywords: angiotensin-converting enzyme inhibitor

Query Match 31.2%; Score 5; DB 3; Length 3;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RW 1  
 1:  
 Db 3 RF 3

## RESULT 28

A02147

phagocytosis-stimulating peptide (tuftsin) - human

C:Species: Homo sapiens (man)

C:Date: 31-Mar-1991 #sequence\_revision 31-Mar-1991 #text\_change 03-Feb-1994

C:Accession: A02147

R:Nishio, K.; Constantinopoulos, A.; Satoh, P.S.; Najjar, V.A.

Biochem. Biophys. Res. Commun. 47, 172-179, 1972

A:Title: The characteristics, isolation and synthesis of the phagocytosis stimulating

A:Reference number: A02147; MUID:72187087; PMID:4112769  
A:Accession: A02147

A:Molecule type: protein

A:Residues: 1-4 <NIS>

A:Note: a peptide having the same structure, physical properties, and biological activity as the peptide described in the reference.

R:Idalago, B.V.; Najjar, V.A.

Biochemistry 6, 3386-3392, 1967

A:Reference number: A37502; MUID:68091045; PMID:4169272

A:Contents: annotation; immunoglobulin class

C:Comment: An IgG (called leucokinin) binds reversibly to the cell membrane of neutrophils and is essential for maximum stimulation of the phagocytic activity of neutrophils.

C:Superfamily: immunoglobulin C region; immunoglobulin homology

Query Match 31.2%; Score 5; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 4 R 4

RESULT 29

phospholipase C (EC 3.1.4.3) - Clostridium perfringens (fragment)

C:Species: Clostridium perfringens

C>Date: 16-Aug-1996 #sequence\_revision 16-Aug-1996 #text\_change 21-Jul-2000

C:Accession: I40870

R:Toyonaga, T.; Matsushita, O.; Katayama, S.; Minami, J.; Okabe, A.

Microbiol. Immunol. 36, 603-613, 1992

A:Title: Role of the upstream region containing an intrinsic DNA curvature in the negative regulation of the expression of the phospholipase C gene.

A:Reference number: I40870; MUID:92396045; PMID:1522810

A:Accession: I40870

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-4 <RES>

A:Cross-references: EMBL:X62825; NID:940622; PIDD:CAA44636.1; PID:94377417

C:Genes: plc

C:Keywords: phosphoric diester hydrolase

Query Match 31.2%; Score 5; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 3 R 3

RESULT 30

neuropeptide Antho-RNamide - sea anemone (Anthopleura elegantissima)

C:Species: Anthopleura elegantissima

C>Date: 04-Dec-1992 #sequence\_revision 04-Dec-1992 #text\_change 08-Dec-1995

C:Accession: A35779

R:Grimmelikhuijsen, C.J.P.; Rinehart, K.L.; Jacob, E.; Graff, D.; Reinscheid, R.K.; Northwood, D.L.; et al. Proc. Natl. Acad. Sci. U.S.A. 87, 5410-5414, 1990

A:Title: Isolation of L-3-phenylacetyl-L-tyrosine-Arg-Asn-NH<sub>2</sub> (Antho-RNamide), a sea anemone neuropeptide.

A:Reference number: A35779; MUID:90319122; PMID:1973541

A:Accession: A35779

A:Molecule type: protein

A:Residues: 1-4 <GRI>

C:Comment: The L-3-phenylacetyl blocking group probably arises from an amino-terminal phenylalanine residue.

C:Keywords: amidated carboxyl end; neuropeptide; phenylacetylation

F:1/Modified site: L-3-phenylacetic acid (Phe) #status experimental

F:4/Modified site: amidated carboxyl end (Asn) #status experimental

Query Match 31.2%; Score 5; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1

DB 3 R 3

RESULT 31

T-cell receptor beta chain V-D-J region (140-2k) - mouse (fragment)

C:Species: Mus musculus (house mouse)

C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C:Accession: PT0721

R:Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions

A:Reference number: PT0509; MUID:91277601; PMID:1711558

A:Accession: PT0721

A>Status: translation not shown

A:Molecule type: DNA

A:Residues: 1-4 <FE>

A:Experimental source: newborn thymus, strain BALB/c

C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 2 R 2

RESULT 32

ubiquitin - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 07-May-1995 #sequence\_revision 21-Jul-1995 #text\_change 17-Mar-1999

C:Accession: S47552

R:Hubbard, M.C.; Carne, A.

Biochem. Biophys. Acta 1200, 191-196, 1994

A:Title: Differential feeding-related regulation of ubiquitin and calbindin(9kDa) in the rat hypothalamus.

A:Reference number: S47552; MUID:94304928; PMID:8031840

A:Accession: S47552

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-4 <HDB>

Query Match 31.2%; Score 5; DB 2; Length 4;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 2 R 2

RESULT 33

peptidyl-dipeptidase A inhibitory peptide C112 - striped bonito

C:Species: Sarda orientalis (striped bonito)

C>Date: 10-Mar-1994 #sequence\_revision 10-Mar-1994 #text\_change 07-May-1999

C:Accession: JN0862

R:Matsumura, N.; Fujii, M.; Takeda, Y.; Shimizu, T.

Biochem. Biophys. Res. Commun. 199, 1743-1744, 1993

A:Title: Isolation and characterization of angiotensin I-converting enzyme inhibitory peptide from the bonito.

A:Reference number: JN0862; MUID:94080036; PMID:7764272

A:Accession: JN0862

A:Molecule type: protein

A:Residues: 1-5 <MAT>

A:Experimental source: intestine

C:Comment: The amino terminal tripeptide of this protein inhibits angiotensin I-converting enzyme.

C:Superfamily: bradykinin-potentiating peptide

C:Keywords: angiotensin-converting enzyme inhibitor

Query Match 31.2%; Score 5; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 2 R 2

## RESULT 34

140702  
primase - Citrobacter diversus (fragment)

C:Species: Citrobacter diversus  
C:Date: 16-Aug-1996 #sequence\_revision 16-Aug-1996 #text\_change 16-Aug-1996  
C:Accession: 140702  
R:Versalovic, J.; Lupski, J.R.  
Mol. Microbiol. 8, 343-355, 1993  
A:Title: Conservation and evolution of the rpsU-dnaG-rpoD macromolecular synthesis (MMS)  
A:Reference number: 140702; MUID:93302510; PMID:8316085  
A:Accession: 140702  
A:Status: preliminary; translated from GR/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-5 <RES>  
A:Cross-references: GB:L01754; NID:g144439  
A:Genetics:  
A:Gene: dnaG

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 4 R 4

## RESULT 35

A44955  
alkanal monooxygenase (FMN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment)

C:Species: Vibrio harveyi  
C:Date: 03-Jun-1993 #sequence\_revision 03-Jun-1993 #text\_change 26-May-2000  
C:Accession: A44955  
R:Paguette, O.; Tu, S.C.  
Photochem. Photobiol. 50, 817-825, 1989  
A:Title: Chemical modification and characterization of the alpha cysteine 106 at the Vih  
A:Reference number: A44955; MUID:90175700; PMID:2626493  
A:Accession: A44955  
A:Status: preliminary  
A:Molecule type: protein  
A:Residues: 1-5 <PAQ>  
C:Keywords: FMN; Luminescence; monooxygenase; oxidoreductase

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 5 R 5

## RESULT 36

D60274  
major protein antigen MPY46 - Mycobacterium tuberculosis (fragment)

C:Species: Mycobacterium tuberculosis  
C:Date: 11-Dec-1992 #sequence\_revision 11-Dec-1992 #text\_change 30-Sep-1993  
C:Accession: D60274  
R:Nagai, S.; Wiker, H.G.; Harboe, M.; Kinomoto, M.  
Infect. Immun. 59, 372-382, 1991  
A:Title: Isolation and partial characterization of major protein antigens in the culture  
A:Reference number: A60274; MUID:91099899; PMID:1898899  
A:Accession: D60274  
A:Status: preliminary  
A:Molecule type: protein

A:Residues: 1-5 <NAG>  
Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 1 R 1

## RESULT 37

B22565  
R-phycoerythrin alpha-2 chain - red alga (Gastrocoulonium coulteri) (fragment)

C:Species: Gastrocoulonium coulteri  
C:Date: 07-Mar-1988 #sequence\_revision 07-Mar-1988 #text\_change 23-Mar-1993  
C:Accession: B22565  
R:Klotz, A.V.; Glazer, A.N.  
J. Biol. Chem. 260, 4856-4863, 1985  
A:Title: Characterization of the bilin attachment sites in R-phycoerythrin.  
A:Reference number: A22565; MUID:85182601; PMID:3886644  
A:Accession: B22565  
A:Molecule type: protein  
A:Residues: 1-5 <KLO>

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 5 R 5

## RESULT 38

F22565  
R-phycoerythrin gamma-A chain - red alga (Gastrocoulonium coulteri) (fragment)

C:Species: Gastrocoulonium coulteri  
C:Date: 07-Mar-1988 #sequence\_revision 07-Mar-1988 #text\_change 23-Mar-1993  
C:Accession: F22565  
R:Klotz, A.V.; Glazer, A.N.  
J. Biol. Chem. 260, 4856-4863, 1985  
A:Title: Characterization of the bilin attachment sites in R-phycoerythrin.  
A:Reference number: A22565; MUID:85182601; PMID:3886644  
A:Accession: F22565  
A:Molecule type: protein  
A:Residues: 1-5 <KLO>

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
|  
Db 5 R 5

## RESULT 39

T14910  
hypothetical protein - parsley

C:Species: Petroselinum crispum (parsley)  
C:Date: 20-Sep-1999 #sequence\_revision 20-Sep-1999 #text\_change 21-Jul-2000  
C:Accession: T14910  
R:Kitchner, S.; Ledger, S.; Hayashi, H.; Weishaar, B.; Schafer, E.; Frohnmeyer, H.  
Mol. Gen. Genet. 257, 595-605, 1998  
A:Title: CPRF4, a novel plant BZIP protein of the CPRF family: comparative analysis  
A:Reference number: Z18261; MUID:98265918; PMID:9604882  
A:Accession: T14910  
A:Status: preliminary; translated from GR/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-5 <KIR>  
A:Cross-references: EMBL:Y10810; NID:93336904; PIDN:CAA71769.1; PID:93336905  
A:Experimental source: ssp. Hamburger Schnitt



Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 4 R 4

## RESULT 40

S53595  
 hypothetical protein (upstream of transcription factor, CCAAT-binding) - chicken  
 C:Species: Gallus gallus (chicken)  
 C:Date: 15-Jul-1995 #sequence\_revision 01-Sep-1995 #text\_change 07-May-1999  
 C:Accession: S53595  
 R:Calhoun, C.F.; Bouwman, P.R.J.; Snijpe, L.; Ab, G.  
 Nucleic Acids Res. 22: 5540-5547, 1994  
 A:Title: Translation start site multiplicity of the CCAAT/enhancer binding protein alpha  
 A:Reference number: S53595; MUID:95140613; PMID:7838705  
 A:Accession: S53595  
 A:Status: Preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-5 <CAL>  
 A:Cross-references: EMBL:X66844

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 4 R 4

## RESULT 41

PT0295  
 Ig heavy chain CRD3 region (clone 5-91) - human (fragment)  
 C:Species: Homo sapiens (man)  
 C:Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 16-Aug-1996  
 C:Accession: PT0295  
 R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.  
 J. Exp. Med. 173: 395-407, 1991  
 A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity and  
 A:Reference number: PT0222; MUID:91108337; PMID:1899102  
 A:Accession: PT0295  
 A:Molecule type: DNA  
 A:Residues: 1-5 <YAM>  
 A:Experimental source: B lymphocyte  
 C:Keywords: heterotrimer; immunoglobulin

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 4 R 4

## RESULT 42

S62883  
 seminal plasma protein II - pig (fragment)  
 C:Species: Sus scrofa domestica (domestic pig)  
 C:Date: 28-Oct-1996 #sequence\_revision 13-Mar-1997 #text\_change 17-Mar-1999  
 C:Accession: S62883  
 R:Romero, A.; Varela, P.F.; Sanz, L.; Toepfer-Petersen, E.; Calvete, J.J.  
 FEBS Lett. 362: 15-17, 1996  
 A:Title: Crystallization and preliminary X-ray diffraction analysis of boar seminal plas  
 A:Reference number: S62883; MUID:96196555; PMID:8612739  
 A:Accession: S62883  
 A:Molecule type: protein  
 A:Residues: 1-5 <ROM>

C:Complex: heterodimer; seminal plasma protein I and seminal plasma protein II  
 C:Keywords: glycoprotein; heterodimer; semen

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 2 R 2

## RESULT 43

PT0513  
 T-cell receptor beta chain V-D-J region (100-44L) - mouse (fragment)  
 C:Species: Mus musculus (house mouse)  
 C:Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
 C:Accession: PT0513; PT0606  
 R:Feeney, A.J.  
 J. Exp. Med. 174: 115-124, 1991  
 A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
 A:Reference number: PT0509; MUID:91277601; PMID:1711558  
 A:Accession: PT0513  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-5 <FEE>  
 A:Experimental source: adult thymus, strain BALB/c, clone 100-44L  
 A:Accession: PT0606  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-5 <FE2>  
 A:Experimental source: newborn thymus, strain BALB/c, clone 120-1S  
 C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 5 R 5

## RESULT 44

PT0525  
 T-cell receptor beta chain V-D-J region (100-4J) - mouse (fragment)  
 C:Species: Mus musculus (house mouse)  
 C:Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
 C:Accession: PT0525  
 R:Feeney, A.J.  
 J. Exp. Med. 174: 115-124, 1991  
 A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
 A:Reference number: PT0509; MUID:91277601; PMID:1711558  
 A:Accession: PT0525  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-5 <FEE>  
 A:Experimental source: adult thymus, strain BALB/c  
 C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 R 1  
 |  
 Db 3 R 3

## RESULT 45

PT0597  
 T-cell receptor beta chain V-D-J region (111-1B) - mouse (fragment)  
 C:Species: Mus musculus (house mouse)

C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0597  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0597  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <FE>  
A:Experimental source: newborn thymus, strain BALB/c  
C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 5 R 5

RESULT 46  
PT0608  
T-cell receptor beta chain V-D-J region (120-2CF) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0608  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0608  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <FE>  
A:Experimental source: newborn thymus, strain BALB/c  
C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 4 R 4

RESULT 47  
PT0672  
T-cell receptor beta chain V-D-J region (121-1B) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0672  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0672  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <FE>  
A:Experimental source: day 4 postnatal thymus, strain BALB/c, clone 121-1B  
A:Status: translation not shown  
A:Molecule type: DNA  
A:Residues: 1-5 <FE>  
A:Experimental source: day 18 fetal thymus, strain BALB/c, clone 140-1BG  
C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 5 R 5

RESULT 48  
PT0553  
T-cell receptor beta chain V-D-J region (126-1C) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0553  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0553  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <FE>  
A:Experimental source: day 18 fetal thymus, strain BALB/c  
C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 4 R 4

RESULT 49  
PT0695  
T-cell receptor beta chain V-D-J region (135-1D) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0695  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0695  
A:Status: translation not shown  
A:Molecule type: DNA  
A:Residues: 1-5 <FE>  
A:Experimental source: newborn thymus, strain BALB/c  
C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 R 1  
DB 4 R 4

RESULT 50  
PT0577  
T-cell receptor beta chain V-D-J region (141-1BC) - mouse (fragment)  
C:Species: Mus musculus (house mouse)  
C>Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997  
C:Accession: PT0577  
R:Feeney, A.J.  
J. Exp. Med. 174, 115-124, 1991  
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions  
A:Reference number: PT0509; MUID:91277601; PMID:1711558  
A:Accession: PT0577  
A:Status: translation not shown  
A:Molecule type: mRNA  
A:Residues: 1-5 <FE>  
A:Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-1BC

A:Accession: PT0574  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-5 <FE2>  
 A:Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-10  
 C:Keywords: T-cell receptor

Query Match 31.2%; Score 5; DB 2; Length 5;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;  
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 R 1  
 Db 4 R 4

Search completed: February 21, 2003, 12:31:56  
 Job time : 23 secs

